

INTEGRATION OF EDUCATIONAL ROBOTICS TO SCIENTIFIC LEARNING TEACHING PROCESS

Science e-Robot

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ISSUE
3

Hello to the reader!

Welcome to the third digital newsletter of the Science e-Robot project. The general goal of this 24-month project is; To increase the quality of education by contributing to the integration of technology into the learning and teaching process in order to increase the level of acquisition of 21st century basic skills. You will find details about the project in the following sections. We wish you pleasant reading in advance.



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Our Focus!

“

It is the relationship between core competencies and scientific literacy.

”

1. PROJECT GOAL

To develop scientific literacy within the consortium by contributing to the development of basic competencies by integrating educational robotics technology into the scientific learning and teaching process.

PROJECT OBJECTIVES

1. Developing an innovative science learning-teaching strategy compatible with the educational context of partner countries regarding the scientific learning-teaching process in which educational robotics is integrated for target groups by developing 3 intellectual outputs;
2. Increasing the knowledge and skills of 42 personnel from partner organizations on different teaching models, assessment and evaluation and robotic methods/techniques in interdisciplinary science teaching;
3. By organizing 5 large-scale multiplier events and other dissemination activities; developing the knowledge skills of at least 200 Science teachers, 50 pre-service teachers and 100 experts on the use of intellectual outputs developed under this partnership;
4. To develop the basic competence and scientific literacy of students aged 10-17 through educational robotics;
5. To develop long-term innovative cooperation between partners.

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2. WHAT DID WE DO?

Our TPM-3

Our 3rd Transnational Project Meeting (TPM-3) was held on 02 - 03 November 2022 in Berlin, hosted by our German partner RobyCode UG. All project partners attended the meeting and there were 18 participants including the host.

The main agenda items of the meeting are; assessing the progress of the project, discussing and planning future tasks (multiplier events), evaluating monitoring reports, discussing dissemination efforts and discussing intellectual outputs. In addition, various ideas have been put forward for the sustainability of the project. Through brainstorming, we agreed to develop an eTwinning project and make a sustainability statement. We also brought to the attention of our partners that our project will take place both as a digital poster and as a presentation at the 4th Scientix Conference (18-19 November 2022).



4th Scientix Conference

Two of our representatives from Science E-Robot will attend the 4th Scientix Conference, which will take place on November 18 - 19, 2022, organized by Scientix, as digital posters and presentations.

The event, which will bring together key stakeholders, will include valuable work from international science education projects and academic studies.

Scientix Projects

Our project has been published in the projects section of the Scientix website. Please, have a look; <http://www.scientix.eu/web/guest/projects/project-detail?articleId=1219896>

Erasmusdays

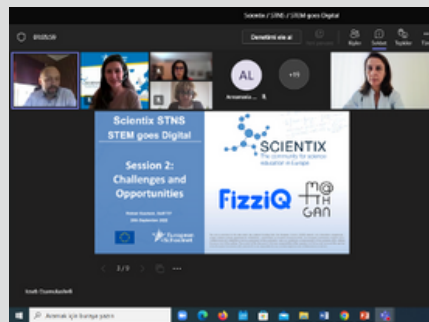
Within the scope of Erasmusdays events, a national article was published in Romania and we held physical seminars in Turkey.



STEM Goes Digital

A representative from Science E-Robot has been invited to a (closed) seminar on STEM Goes Digital, which had take place online on September 28, 2022.

The event was organized by Scientix as part of networking seminars that brought together key stakeholders such as Ministries of Education (MoEs), teachers, researchers, industry partners, project coordinators, administrators and other representatives from European and national science education projects.



Scientix Episode

Also, our project was published in Episode 2 by Scientix. Please, have a look; <http://www.scientix.eu/news/news-all/news-detail?articleId=1219769>

3. OUR INTELLECTUAL OUTPUTS

01

E-WORKBOOK: SCIENTIFIC LEARNING TEACHING PROCESS DESIGN WITH EDUCATIONAL ROBOTIC PATTERN

We designed scientific activities involving robotics in problem-based, project-based, inquiry-based and engineering design process learning models. Science activities prepared in the themes determined in the sustainable development goals were uploaded to the "e-workbook platform", the first intellectual output of the project. This platform contains STEM related activities in different languages, which can be selected in different filters. We hope it can be of use to you in overcoming difficulties in scientific learning:

<https://www.scienceerobot.com/eworkbooks>

02

A METHODOLOGICAL GUIDE TO ADAPTING ROBOTIC ASSISTED SCIENCE TEACHING TO MODERN LEARNING TEACHING MODELS

Our 2nd intellectual output is presented as a methodological guide, a holistic methodological strategy for the acquisition of key competences and skills. It is one of the main optimization tools of our project in reducing the failure in science and therefore in improving science literacy. It is designed to allow the adaptation of robotic technology to modern education approaches / strategies and science teaching with innovative teaching models developed towards them.

03

COMPREHENSIVE MEASUREMENT AND EVALUATION TOOLKIT

Testing robotic assisted science learning activities; It will provide guidance on assessing their strengths and weaknesses.

It continues to be prepared. It will be made available to you soon.

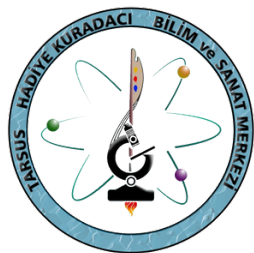


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4. CONSORTIUM



Hadiye Kuradacı
Science and Art Center



T.R. MoNE Special Education and Guidance
General Directorate of Services



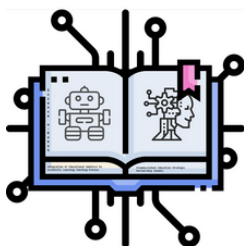
Mersin University



Agrupamento De Escolas De
Portela E Moscavide



Istituto Istruzione Scolastica Superiore
"Carlo Alberto Dalla Chiesa"

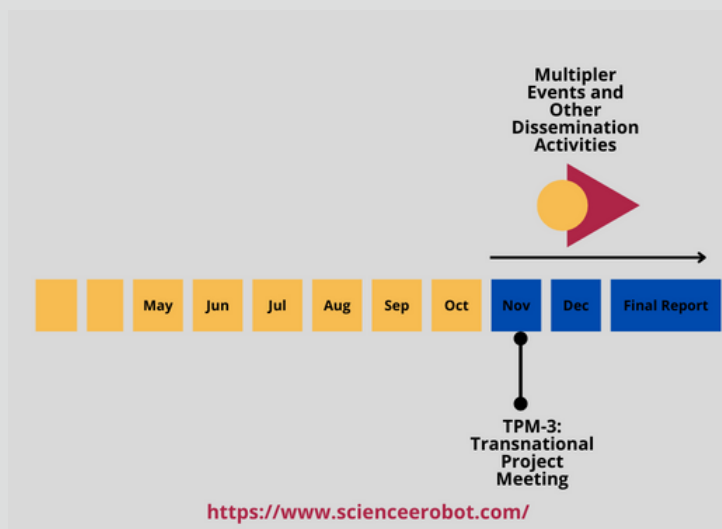


Liceul National De Informatica Arad



RobyCode UG

5. NEXT STEPS



6. CONTACT US



ScienceE-Robot



@RobotSciencee



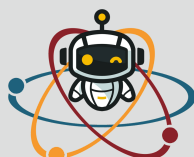
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